



# COLIBRI

## DICING SPINDLES FAMILY

Original Designer & Manufacturer of Air Bearing Spindles

- Smaller
- Lighter
- Higher Reliability

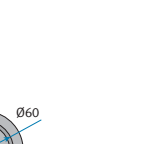
Member Company IMC Group

- Solid Financial Background
- 52 Offices Worldwide
- After Sales Support

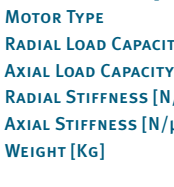
Superior Spindle Repair Services

- All Manufacturers
- Dicing, Grinding, PCB, Others

[www.colibrispindles.com](http://www.colibrispindles.com)



### SPINDLE MODEL > HF 60 L9 D 45 (SAR)



Integrated Circuits

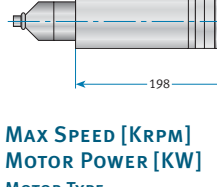
Blade Size 2"



MAX SPEED [KRPM]	45
MOTOR POWER [KW]	0.6
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	45
AXIAL LOAD CAPACITY [N]	85
RADIAL STIFFNESS [N/μM]	4
AXIAL STIFFNESS [N/μM]	8
WEIGHT [KG]	3

THE SPINDLE PARTNER

### SPINDLE MODEL > HF 80 L3 D 60 (BOH)



Integrated Circuits

Package Singulation

Blade Size 2", 3"



MAX SPEED [KRPM]	60
MOTOR POWER [KW]	1.2
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	130
AXIAL LOAD CAPACITY [N]	150
RADIAL STIFFNESS [N/μM]	8
AXIAL STIFFNESS [N/μM]	9
WEIGHT [KG]	6.7

THE SPINDLE PARTNER

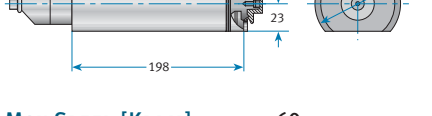
### SPINDLE MODEL > HF 80 L15 D 60 (BOP)



Integrated Circuits

Package Singulation

Blade Size 2", 3"



MAX SPEED [KRPM]	60
MOTOR POWER [KW]	1.2
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	130
AXIAL LOAD CAPACITY [N]	150
RADIAL STIFFNESS [N/μM]	8
AXIAL STIFFNESS [N/μM]	9
WEIGHT [KG]	6.5

THE SPINDLE PARTNER

### SPINDLE MODEL > HF 80 L11 D 40 (ZIG)



Integrated Circuits

Package Singulation

Blade Size 2", 3"



MAX SPEED [KRPM]	40
MOTOR POWER [KW]	1.8
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	180
AXIAL LOAD CAPACITY [N]	180
RADIAL STIFFNESS [N/μM]	10
AXIAL STIFFNESS [N/μM]	10
WEIGHT [KG]	8.5

THE SPINDLE PARTNER

### SPINDLE MODEL > HF 80 L17 D 60 (ZIG)



Package Singulation

Hard Materials

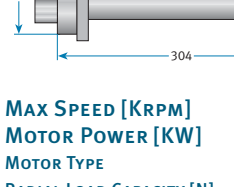
Blade Size 2", 3"



MAX SPEED [KRPM]	60
MOTOR POWER [KW]	2.4
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	180
AXIAL LOAD CAPACITY [N]	180
RADIAL STIFFNESS [N/μM]	10
AXIAL STIFFNESS [N/μM]	10
WEIGHT [KG]	8.5

THE SPINDLE PARTNER

### SPINDLE MODEL > HF 80 L13 D 60 (FRD)



Package Singulation

Hard Materials

Blade Size 2", 3"



MAX SPEED [KRPM]	60
MOTOR POWER [KW]	2.4
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	130
AXIAL LOAD CAPACITY [N]	150
RADIAL STIFFNESS [N/μM]	9
AXIAL STIFFNESS [N/μM]	10
WEIGHT [KG]	7.3

THE SPINDLE PARTNER

### SPINDLE MODEL > HF 80 L10 D 30 (SHA)



Package Singulation

Hard Materials

Blade Size 3", 4", 5"



MAX SPEED [KRPM]	30
MOTOR POWER [KW]	3.0
MOTOR TYPE	DC BRUSHLESS
RADIAL LOAD CAPACITY [N]	260
AXIAL LOAD CAPACITY [N]	490
RADIAL STIFFNESS [N/μM]	12
AXIAL STIFFNESS [N/μM]	26.5
WEIGHT [KG]	21

THE SPINDLE PARTNER

## MATERIALS HANDLED > PARTIAL LIST

<p><b>Integrated Circuits</b></p> <ul style="list-style-type: none"> <li>• Copper Wafers</li> <li>• Gallium Arsenide</li> <li>• Lithium Tantalite</li> <li>• Low K SI Wafers (Copper)</li> <li>• Silicon</li> </ul>	<p><b>Hard Materials</b></p> <ul style="list-style-type: none"> <li>• Alumina</li> <li>• Ferrite</li> <li>• Glass</li> <li>• Lithium Naiobate</li> <li>• MEMS</li> <li>• MLCC</li> <li>• Opto Electronics</li> <li>• PZT</li> <li>• Quartz</li> <li>• Sapphire</li> <li>• Silicon-on-Glass</li> <li>• Storage Media</li> <li>• Tantalum</li> <li>• TIC (Magnetic Heads)</li> </ul>
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